

SEMENOVA, Ye.S.; CSIPOV, L.N.; ROGOV, S.P.; ZELENTSOVA, V.A.

Air-steam regeneration of a coked aluminocobalt-molybdenum catalyst. Neftsper. i neftskhim. nc.8:16-13 '63.

(MTRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

CLEBOVA, Iveta Ivenovna; ZELENTSOV, Vacvolod Alekseyevich; IVANOV,
Vladimir Vladimirovich; HIKULIN, Nikolay Ivenovich; SHILTOVA,
Alla Petrovna; OSHAWIN, I.M., prof., red.; VU DANG AT, red.;
SFEKTOROV, L.D., red.; ZELENTSOVA, Ye.B., red.; SOBOLEVSKAYA,
E.S., tekhn.red.

[Vietnamese-Russian dictionary] Vietnamsko-russkii slovari. Sost. I.I.Glebova i dr. Pod red. I.M.Osnanine i Vu Dang Ata. Okolo 36000 slov. Moskva, Gos.izd-vo inostr.i natsionalinykh slovarei, 1961. 616 p. (MIRA 14:4)

2. Vostochnaya redaktsiya Gosudaratvennogo izdatel'atva inoatrannykh i natsional'nykh slovarey (for Ye.B.Zelentsova, Spektorov).

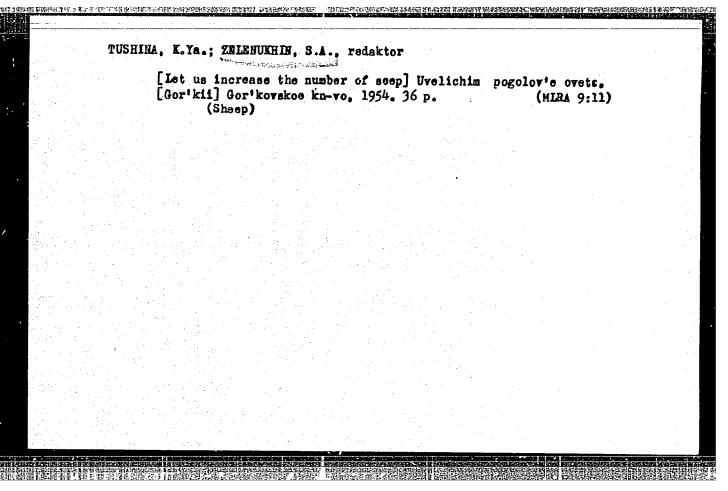
(Annamese language -- Dictionaries -- Russian)

ZELE	NTSOVA,	Ye. K.						
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	SO: Knizhnaya Letopis, Vol. 1, 1955

- 1. ZELENUKHIN, I. A. KUFOROV. A. V.
- 2. USSR (600)
- 4. Gor'kiy Province-Agriculture-Study and Teaching
- 7. House of the Agronomist in Gor'kiy Province. Dost. sel'khoz. no 11 N ! 52.

9. Monthly List Of Russian Accessions, Library of Congress, March 1953. Unclassified.

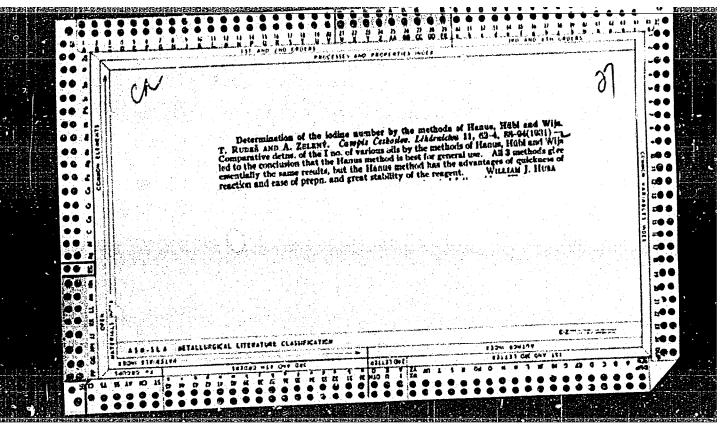


ZELENY, A

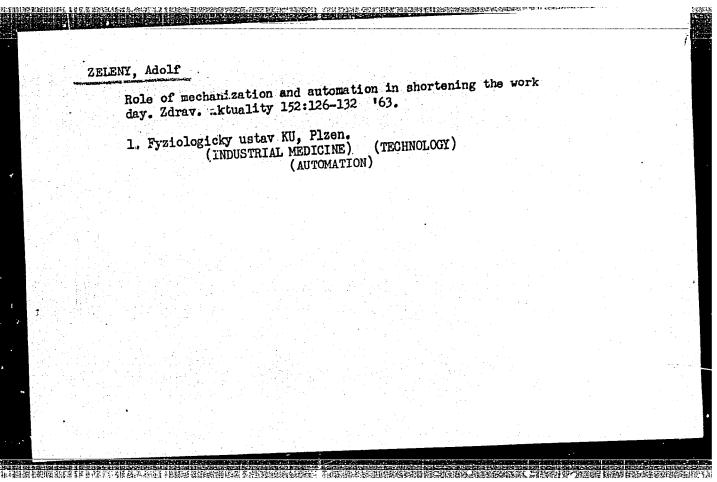
"lst International Symposium on the Physiology of Work."

CESKOSLOVENSKA FYSIOLOGIE, Praha, Czechoslovakia, Vol. 7, no. 4, July 1958

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept 59
Unclas



ZELENY, Adolf						
"Pnysiologica			Work and Res	t Regimens,	" <u>Ceskoslo</u> v	renska
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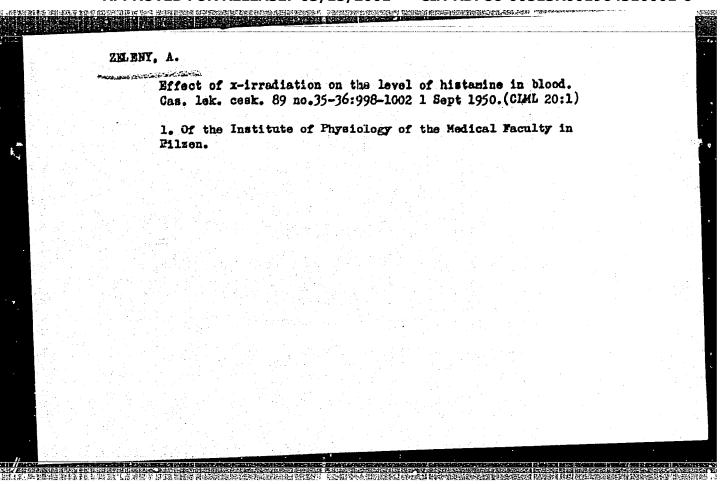


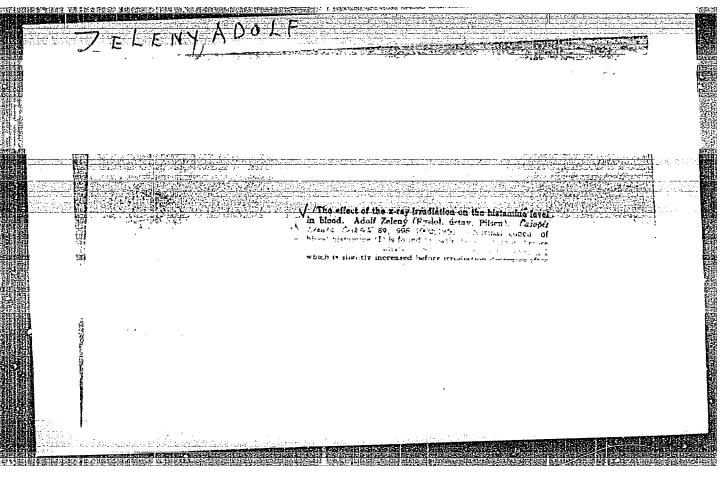
ZELENY, A.; KOZAK, J.; MAINEROVA, J.; KRIZ, M.; NOVOTNY, V.; SUCHY, R.; STOLARIK, R.

Complex research on forestry work with power saws. Conclusions for practical considerations. Acta univ. carol. [Med] Suppl. 15:211-217 161.

1. Fysiologicky ustav lek. fak. University Karlovy se sidlem v Plzni, Odd. chorob z povolani KUNZ v Plzni, Vyzkumny ustav lesniho hospodarstvi ve Zbraslavi, Ustav bezpecnosti prace ROH v Praze a Krajska sprava lesu v Plzni. (INDUSTRIAL MEDICINE)

	Calorimetry during the work with power saws. 218-221 Je '62.		
	1. Fyziologicky ustav lekarske fakulty Karlo prednosta doc. dr. A. Zeleny, Vyzkumny ustav a myslivosti na Zbraslavi, reditel inz. J. S (METABOLISM)	obotka.	
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VANYSEK, J; VAVRA, R; ZELENY, V.

Method of electroretinography in man. Cesk. ofth. 8 no.1:1-8

Jan 1952. (CLML 22:2)

1. Of the Institute of Experimental Pathology and of the Eye
Clinic of the Military Medical Academy in Hradec Kralove.

HUBAC, M.; POUPA, O.; ZELENY, A.

Closing remarks on nutrition of workers exposed to heat. Sborn. patho-fysiol. trav. vyz. 7 no.1-4:75-79 June 1953. (CLML 25:1)

1. Of the Research Institute of Nutrition (Director-Docent J. Masek, M. D.), Prague and of the Institute of Physiology of Charles University Branch in Pilsen and of the Regional Institute of Labor Eygiene and of Occupational Diseases, Bratislava.

Country : GDR

Category: Pharmacology. Toxicology. Tranquilizers.

Abs Jour: RZhBiol., No 6, 1959, No 27689

Author : Lindaur, V.; Zeleny, A.

: On the Influence of Chlorpromazine on the Toxicity Inst Title

of Acetylcholine and on Its Action on Metabolism.

Orig Pub: Pharmazie, 1958, 13, No 2, 77-79

Abstract: In experiments on rats and mice, chlorpromazine (I; 10-20 mg/kg), introduced 1 hour before intraperitoneal injection of 350 mg/kg (DLm50) of acetylcholine, increased the mortality of the animals to 100%. I and acetylcholine in separate introduction decreased the excretion of CO2 in mice by 43 and 23.5% respec-

: 1/2 Card

ADS Jour: RZhBiol., No 6, 1959, No 27689

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L.B. Murmand

Card : 2/2

7-2 GDR/Pharmacology and Toxicology - Tranquilizers. : Ref Zhur - Biol., No 21, 1950, 98426 Abs Jour : Zeleny, A., Kozak, J. Author Inst : Influence of Chloropromazine on the Musculus Rectus Title Abdominis of the Frog. : Fnarmazie, 1958, 13, No 1, 200-202 Orig Pub : Low concentrations (up to 10 //ml) of largactyl (I) Abstract weakened the contraction of an isolated musculus rectus abdominis of frog, induced by acetylcholine (II). A

lowering of cardiac muscle sensitivity to II. Addition of Ca made the effect of I more potent. Dimercaptopropanol restored the muscle consitivity to II. I also weake-

ned tetanic contractions of the muscle, conditioned by

direct effect of I appeared also on the isolated heart of the frog: 3 % of I induced atrio-ventricular block

Card 1/2

Certain parameters of central irritability during physical work. Cesk. fysiol. 9 no.1:71-72 Ja 60. 1. Fysiologicky ustav lek. fak. KU, Plzen. (EXERTION) (GENTRAL NERVOUS SYSTEM physiol.)

CERHOVA, M.; SIDLOVA, A.; ZELENY, A.

The effect of skin inflammation on blood content of serotonin and h histamine. Physiol. Bohemoslov. 11 no.2:136-141 62.

1. Institute of Physiology, Medical Faculty of Charles University, Plzen.

(ULTRAVIOLET RAYS) (DERMATITIS experimental) (SEROTONIN blood) HISTAMINE blood)

CZECHOSLOVAKIA

UDC 612.766.1.014.32

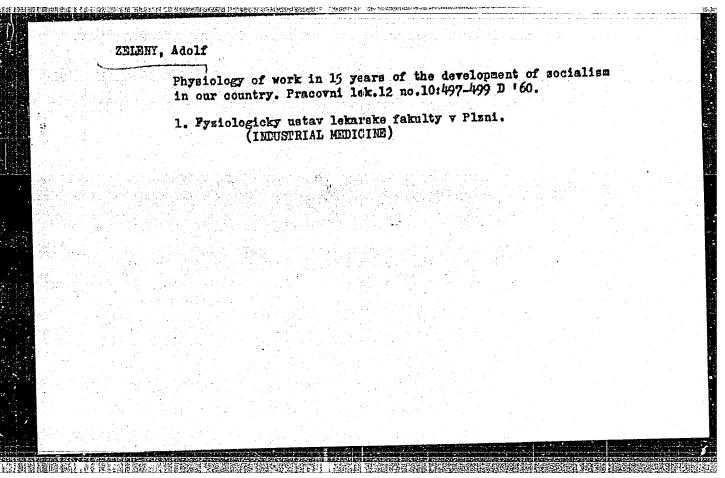
ZELENY, Adolf; KORINEK, Frantisek; Institute of Work Hygiene and Occupational Diseases (Ustav Hygieny Prace a Chorob z Povolani), Prague, Director (Reditel) Prof Dr J. TEISINGER.

"Fatigue Exhaustion from the Point of View of Work Physiology."

Prague, Pracovni Lekarstvi, Vol 18, No 4, May 66, pp 171 - 175

Abstract: The difference between subjective and objective work fatigue is discussed. Local fatigue, due to the straining of some definite parts of the body, and central fatigue, due to the strain on the nervous system, are described. The symptoms of fatigue are reviewed. The physiological causes of fatigue are discussed. Various degrees of fatigue: acute and simple, overexertion, chronic fatigue, overwork, and exhaustion are described. Prevention of fatigue is discussed. 39 Western, 4 Czech, 9 Russian, 1 East German reference. (Manuscript received 22 Jun 65).

- 123 -



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ABSTRACT Chronote	: The article presents Sternberk, Nat Lectric spark erosic Orig. art. has: 14	ents numerous exional Enterprise	amples from the , and points ou he production of	operation of t the possibi	the lities of wbide
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KOTLYARSKIY, L.B.; ZELENAYA, A.V.; KISHINEVSKAYA, Z.M.; ZELENYY, A.G.

Application of ultrasonic waves in the manufacture of paint materials. Lakokras. mat. i ikh prim. no.5:51-57 '63. (MIRA 16:11)

1. Proyektno-konstruktorskiy institut soveta narodnogo khozyaystva Moldavskoy SSR i lakokrasochnyy zavod "Krasnaya zvezda".

NOVAK, Tomas, inz.; ZELENY, Evzon

Mechanization of glass melting-pot transfer. Sklar a keramik

1. Lustry National Enterprise, Kamenicky Senov.

15 no.2:51 F '65.

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16.6200

AUTHOR:

Zeleny, F., Engineer

TITLE:

Basic Properties of Instruments

PERIODICAL:

Strojirenstvi, 1960, Vol.10, No.9, pp 690-695

The author gives a brief systematic review of the basic properties of instruments, namely, the sensitivity, TEXT: Expressions for the accuracy, reliability and service life. sensitivity are given for the case of linear and non-linear scales. The accuracy of an instrument is expressed by the difference between the indication of the scale and the accurate value, whereby the instrument is calibrated in accordance with the arithmetic mean obtained under differing operating conditions. The degree of accuracy is expressed by the maximum variance V max. Systematic errors (resulting for instance in changes of temperature, air pressure etc.) can usually be taken into consideration. The accuracy of reading of the scale should be commensurate with the accuracy of measurement. The reliability is expressed by the probability that the instrument will give correct readings under operating conditions, for instance, a

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Basic Properties of Instruments

reliability of 99.8% means that of 1000 readings two are likely to be unreliable. The reliability of an instrument is calculated by the probability of failure of its individual components expressed by

 $S \doteq 1 - \sum_{v=1}^{n} a_{(v)},$ (24)

The service life is expressed also in terms of probability of the instrument being able to function for a certain period of time or for a certain number of measurements. In this case the probable service life Z can be expressed as follows:

$$Z = 1 - \sum_{k=1}^{n} b_{(k)},$$
 (26)

where b(k) is the probability of continuous unreliability of an element of the instrument for $k=1, 2, 3, \ldots, n$. Due to the continuously increasing requirements to be met in metering and automation, instruments will have to be subjected to thorough Card 2/3

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Basic Properties of Instruments

verification tests and accurate and reliable methods of determining the qualities of instruments will have to be worked out so as to achieve uniform and continuous improvement in the quality of the instruments. The present practice in this field is not commensurate with the present state of engineering developments. There are 7 figures and 5 references: 4 Czech and 1 English.

ASSOCIATION: Státni výzkumný ústav tepalné techniky, Praha (State Research Institute of Thermal Engineering, Prague)

Card 3/3

CZECHOSLOVAKIA/Acoustics - Noise.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 13915

Author :

: Zeleny, F.

Inst Title

: Noise in Municipal Transport Means.

Orig Pub

: Strojirenstv., 1958, 8, No 8, 577-582

Abstract

: Results are reported on the series of investigations on the disclosure of the causes of noise produced by the trolley buses of the Prague transport system, and possi-

bility of reducing this noise.

Card 1/1

- 112 -

ZELENY, F.

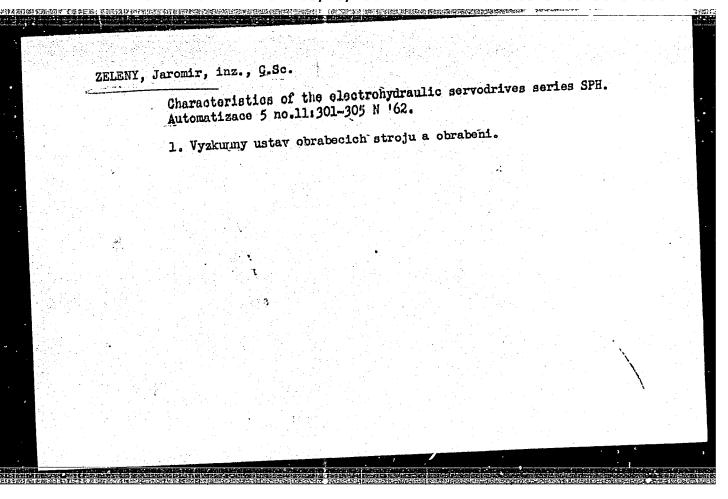
The noise conditions in Prague, the capital city. p. 671. (POKROKY MATEMATIKY, FYSIKY A ASTRONOMIE, Vol. 1, No. 5/6, 1956, Praha, Czechoslovakia)

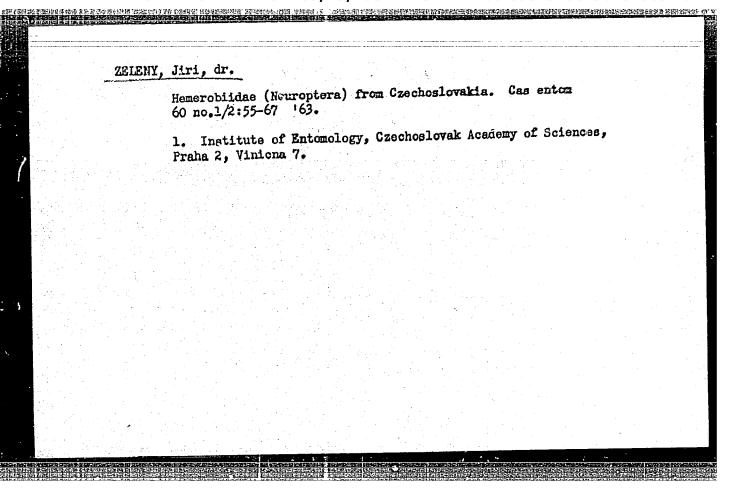
SO: Monthly List of East European Accessions (EEAL) I.C., Vol. 6, No. 12, Dec 1957. Uncl.

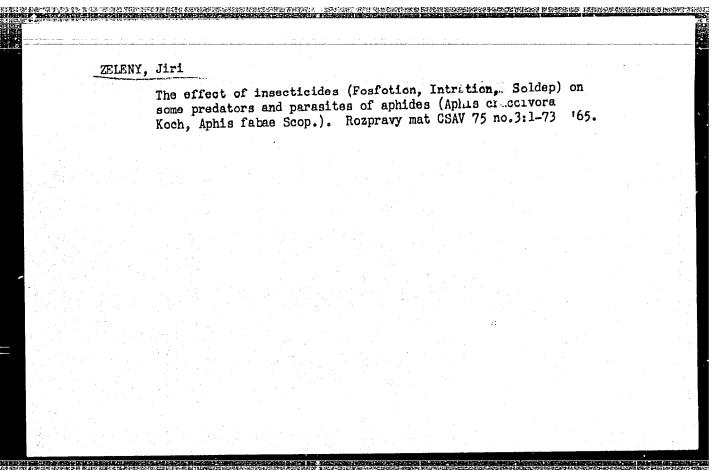
ZELENY, J.; BILEK, D. - Inzenyrske Stavby Vol. 3, no. 2, Feb. 1955

Roof structures of prestressed concrete. p.46

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.







ZELENY, Jiri

A contribution to the knowledge of the dragon flies (Odonata) of Czechoslovakia. Cas entom 57 no.2:97-111 '60. (EEAI 10:1)

 Katedra biologie Vysoke skoly pedagogicke, Prague. (Czechoslovakia--Dragonflies)

ZELENY, J.

ZELENY, J. Melanism in the Parnassius apollo L. in the Carpathian area of northern Slovakia. p.106.

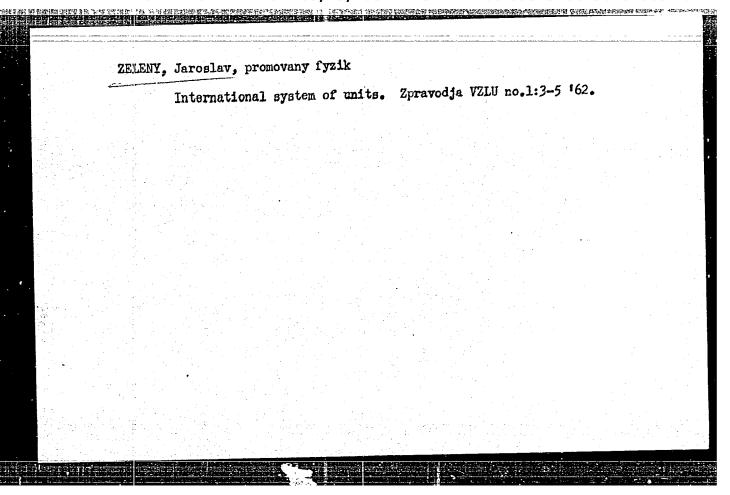
Vol. 11, no. 2, 1956, BIOLOGIA, BRATISLAVA, CZECHOSLOVAKIA.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10, Oct. 1956.

ZELENY, Jiri, Dr. (Vinicna 7, Praha 2)

A contribution to the identification of the family Coniopterygidae (Neuroptera) in Bohemia. Cas entom 58 no.2:169-179 '61. (EEAI 10:9)

1. Institute of Entomology, Czechoslovak Academy of Sciences, Praha.
(Neuroptera)



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	A cor Czeci	ntribution to hoslovakia.	the knouled Cas entom 5	ge of the 6 9 no.1:59-6	7 '62	991 A 221	
	1. (Czechoslovak	Academy of S	ciences, In	stitute of	Entomology,	
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ZELENY, Jiri, dr. Differentiation of Conventzia psociformis Curt. from Conventzia pineticola End. (Neuroptera). Cas entom 58 no.4:380-383 161.

1. Czechoslovak Academy of Sciences, Institute of Entomology, Praha 2, Vinicna 7.

(Neuroptera)

ZELENY, Jiri, CSc.

Aleuropetryz umbrata n. sp., a new special of Heuropetra from Moldavian S.S.R. (Neuroptera, Coniopterygidae), Casentom 61 no.4:327-329 0 164.

1. Institute of Entomology of the Czechoslovak Academy of Sciences, Prague 2, Vinicna 7. Submitted April 17, 1964.

ZELENY, K

PHASE I BOOK EXPLOITATION

CZECH/5120

Meteorologie pro sportovní letce (Meteorology for Sports Flyers) Prague, Haše vojsko, 1960. 241 p. 4,000 copies printed. (Series: Kniznice svazarmu, sv. 5)

Ed.: Karel Zelený; Assistant Editors: For Ch. 2: Mojmír Prokop, Doctor; Ch. 3: Theoretical pt.) Mojmír Prokop, Doctor, and Ivan Cernoch, Chs.: 4, 6, and 7: Oldřich Kostka, Doctor; Chs.: 5 and 15: Ladislav Háza, Doctor; Chs.: 8 and 9: Jaroslav Kopáček, Doctor; Ch.: 10: Milan Koldovský and Jiří Horak; Chs.: 11-14: Jiří Forchtgott, Doctor; Resp. Ed.: Jiří Muk.

PURPOSE: This book is intended for sports plane and glider pilots.

COVERAGE: The book, composed to meet the needs of the aeroclubs of Svaz pro spolupraci s armadou (Union for Cooperation With the Army), discusses the principal types of weather phenomena likely to be encountered in flight. The measurement of meteorological elements is described. Meteorological phenomena of particular interest to glider pilots, viz., convection, turbulence, mountain currents, etc., are treated in some detail. Synoptic maps and weather reports are briefly described. Review questions accompany each chapter. No personalities are mentioned. There are 42 references: 7 Soviet, 21 English, 8 Czech, Carding.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964310001-6"

ACC NR. AM6011670 Monograph. CZ/ Zeleny, Karel, ed. Universe, earth, and air (Vesmir, zeme, vzduch) Prague, NV, 1965, 257 p. 111us. 4000 copies printed. Series note: Kniznice vojenske techniky, sv. 33 TOPIC TAGS: military science, nuclear weapon, advanced weapon, weapon, airborne weapon, military equipment, rocket, aircraft, submarine PURPOSE AND COVERAGE: This book, directed toward the general reader, discusses contemporary Soviet and Western military technology, including rockets, guns, tanks, aircraft, submarines, aircraft carriers, radar, and thermonuclear weapons. Introduction -- 5 Defense of socialism -- 7 Military rockets -- 13 Aerial supply and transport of troops -- 39 Divers in action -- 68 Driving wheeled vehicles cross country -- 92 Electronic detection -- 116 From sonic speed to the heat barrier -- 137 Equipment for radiation surveying and domimetric control -- 156 Technology for the preparation of terrain for military purposes -- 179

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CZECHOSLOVAKIA

Major Mojnir ZELENY Graduate Physician (promovant lekar) and Major Jarollav FAJSTAVR CSc HD; Department of Otorhinolaryngology of the Central Military Hospital (OR), oddeleni Ustredni vojenske nemocnice) Head (nacelnik) Coi Docont Edwin CERNY HD; Prague.

"Ecls of Allergy in Acute Inflammations of the Maxillary Sinus."

Prague, Vojenske Zdravotnicke Listy, Vol 31, No 6, Dec 62; pp 281-283.

Abstract [English sugmary modified]: Authors saw acute sinusitis in 25 from among 1000 soldiers in a year. They analyze 84 patients seen Jul 60 - Jun 61; very thorough clinical and bacteriologic data are given about their symptoms, entology, bacteriologic tests done. Allergy was responsible for about one third of the maxillary sinusitia change postly bacterial allergy. Five Western references, Grech them by juntor author.

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23

ACCESSION NR: AP3005955

2/0055/63/013/008/0579/0585

AUTHOR: Kaczar, J.; Zeleny, M.; Suda, P.

TITLE: Transitional periodic domain structure in thin films of magnetically uniaxial materials

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 13, no. 8, 1963, 579-585

TOPIC TAGS: magnetic plate, magnetic structure, magnetism, magnetic uniaxial material, periodic domain structure, domain structure, ferromagnet, iron magnet, demagnetization

ABSTRACT: The paper gives the theory of transitional domain structure in thin films of uniaxial ferromagnets with an easy axis perpendicular to the film. This domain structure was first studied by Ch. Kittel (Phys. Rev. 70 (1946), 965) and Z. Malek and V. Kamberský (Czech. J. Phys. 8 (1958), 416), who calculated the influence of the demagnetizing energy more exactly. They based their calculations on a simple model of a thin ferromagnetic film composed of domains in the shape of parallel plates alternately magnetized normal to the surface. From the results obtained until now it is seen that there exists a region of critical thicknesses at which the structure of the anti-parallel magnetized Card 1/3

ACCESSION NR: AP3005955

plates changes into another structure, the type of which depends on the material constants and which is energetically more favorable. Depending on the ratio $k = 2\pi I_s^2/K_1$, where I_s is the saturation magnetization and K_1 the anisotropy constant of the film, the plate structure changes for k < 1 into a single-domain film magnetized perpendicular to the film; for $k \ge 1$, on the other hand, we get a single-domain film (on the assumption that the film is unbounded), in which the magnetization lies in the plane of the film. It is to be expected that the transition from one to another is not sudden, but that there exists at least one transitional structure. In the present paper a model for such a structure is proposed and its energy is calculated. It is proved that in a certain range of thicknesses this transitional periodic domain structure is energetically more advantageous than the plate structure originally proposed by Kittel. The proposed model explains the transition from the Kittel structure to the homogeneously magnetized film. The results showed that the transition occurs suddenly at a certain critical thickness when the thickness of the film is decreased. "The authors thank Z. Malek (C. Sc.) and V. Janovec (C. Sc.) for valuable remarks and V. Kamberský for help in the numerical calculations." Orig. art. has: 8 formulas and 6 figures.

Card 2/3

ACCESSION NR: AP3005955

ASSOCHATION: Fyzikalni ustav CSAV, Prague (Institute of Physics, CSAV)

SUBMITTED: 13Nov62 DATE ACQ: 26Aug63 ENCL: 00

SUB CODE: EM NO REF SOV: 000 OTHER: 006

Card 3/3

Froblem of the initial permeability of ferromagnetic powders. Cs cas fys 14 no.3:195-204 '64. 1. Institute of Physics, Czechoslovak Academy of Sciences, Prague.

ZELENY, M.; FAJSTAVR, J.

The role of allergy in chronic inflammations of the maxillary sinuses. Cesk. otolaryng. 14 no.2:78-83 Ap'65.

1. Otolaryngologicke oddeleni UVN v Praze (vedouci: doc. dr. E. Cerny).

ZELENY, M., HORAK, J.; VONDRA, V.; Otolaryngological Department Central Military Hospital (Otolaryngologicke Oddleni Ustredni Vojenske Nemocnice), Prague, Head (Vedouci) Prof. Dr. E. CERNY; Department for Medical Aspects of Sports, Central Military Hospital (Sportovne Lekarske Oddeleni Ustredni Vojenske Nemocnice), Prague, Head (Vedouci) Dr. J. HORAK; Internal Department, Central Health Institute, Military of Interior (Interni Oddeleni Ustredniho Zdravotnickho Ustava MV), Prague, Head (Vedouci) Dr. D. FRIEDMANOVA.

"Relation of Vasomotor Rhinitis to Spastic Broncho-Pulmonary Syndrome in Spirographic Examination."

Prague, Casopis Lekaru Ceskych, Vol 105, No 23, 10 Jun 66, pp 612-616

Abstract [Authors' English summary modified]: Ventilation function of the lungs before and after an epinephrine test (s.c.) was investigated in 44 cases of allergic vasomotoric rhinitis and in 20 cases of non-allergic vasomotor rhinitis. In patients suffering from allergic v.r. the percentage of predicted value of

1/2

POLAND

CHOMICKI, Oskar, GOROWSKI, Tadeusz, and ZELENY, Tadeusz;
Department of Isotopes (Zaklad Izotopow), First Chair of Internal Diseases (I Katedra Chorob Wewnetrznych), Physicians'
Postgraduato Training Program (Studium Doskonalenia Lekarzy),
AM [Akademia Medyczna, Medical Academy] in Warsaw (Director:
Prof. Dr. W. HARTWIG) and Department (Zaklad) XIII, Institute
of Nuclear Research (Instytut Badan Jadrowych) (Director:
Hagister, Inzynier, R. PLEJEWSKI)

"Production of \mathbf{I}^{132} and Its Use in 3-Hour Thyroid Uptake Test."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 34, 19 Aug 63, pp 1249-1251

Abstract: [Authors' English summary modified] Authors describe the method for obtaining I¹³² from Te¹³² and report their study on its effectiveness in testing thyroid uptake in normal individuals and patients suffering from various thyroid diseases. They report their findings in 3 figures and 3 tables and conclude that the 3-hour I¹³² uptake test is most reliable, and its diagnostic value equal, or better than the T₂₄ I¹³¹ test. 2 Polish and 5 Western references.

ZELENY, V. Importance of tree growth along the banks of streams for water conservation.
p. 775.

Vol. 29, No. 11, Nov. 1956.
SBORNIK. RADA LESMICIVI
ACRICULTURE
Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 2, Feb. 1957

ZELENI, Vaclav, inz. CSo.

Runoff conditions during snow thawing in the Morayskoslezske Beskydy Mountains. Les cas 11 no.4:339-358 Ap 165.

1. Mesoarch Institute of Land Improvement, Prague, Research Station Hnojnik. Submitted September 8, 1964.

Behavior of the solutions to S.L. Sobolev's problem at tyoo. Dokl. AN SSSR 139 no.3:531-533 Jl '61. 1. Predstavleno akademikom S.L. Sobolevym. (Boundary value problems) (Differential equations, Partial) (Functions, Periodic)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964310001-6"

ZELENYAK, T.I. Invariant subspaces of one operator. Sib.mat.zhur. 3 no.3:471-475 My-Je '62. (Geometry, Differential) (Spaces, Generalized)

16,3500

<mark>8/</mark>020*/62/147/*005/005/032 B172/B112

AUTHOR:

Zelenyak, T. I.

TITLE:

On a problem of S. L. Sobolev

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 147, no. 5, 1962, 1017-1019

TEXT: The equation

 $\sum_{i=0}^{N} \frac{\partial^{i}}{\partial i^{i}} \left(a_{i,1} \frac{\partial^{2} u}{\partial x^{2}} + a_{i,2} \frac{\partial^{2} u}{\partial y^{2}} + b_{i}(x,y) \frac{\partial u}{\partial x} + c_{1}(x,y) \frac{\partial u}{\partial y} + d_{i}(x,y)u\right) = 0, \sqrt{2}$

is considered where $a_{1,1}$, $a_{1,2}$ are real numbers and b_{1} , c_{1} , d_{1} are continuous functions in a limited closed domain Ω . The boundary Γ of Ω should be three times differentiable and have a positive curvature. $u \mid_{\Gamma} = 0$ is assumed as boundary condition. Solutions to equation (1) are constructed that satisfy (3) and that are a generalization of the solutions to the equation

Card 1/2

On a problem of S. L. Sobolev

8/020/62/147/005/005/032 B172/B112

$$\frac{\partial^2}{\partial t^2} \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} \right) + \frac{\partial^2 u}{\partial y^2} = 0$$

given in an earlier paper of the author (DAN, 139, no. 3, 1961). construction is illustrated by three examples. The

ASSOCIATION: Institut matematiki s vychislitel'nym tsentrom Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Mathematics and Computer Center of the Siberian Branch of the Academy of Sciences USSR)

PRESENTED:

June 25, 1962, by S. L. Sobolev, Academician

SUBMITTED:

June 19, 1962

Card 2/2

OVSYANNIKOV, L.V., doktor fiz.-matem. mauk; ZELENYAK, T.I., kand.
fiz.-matem. nauk

Soviet-American symposium of mathematicians in Novosibirsk.
Vest. AN SSSR 33 no.11:93-96 N '63. (MIRA 17:1)

ZELENYAK, T. I.

Dissertation defended for the degree of Candidate of Physitomather tical Sciences at the Joint Scientific Council on Physicomathematical and Technical Sciences; Siberian Branch

"Behavior When take of Solutions to a Problem of S. L. Sobolev."

Vestnik Akad. Nauk, No.4, 1963, pp 119-145

for all functions we that are infinitely differentiable and finite

 $u = \varphi(x + \mu_1 y) + \psi(x + \mu_2 y),$ (3)

where μ_1 and μ_2 are the roots of the equation

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ACC NR: AP5027216 LUP(C) AT	SOURCE CODE: UR/0020/65/164/006/1225/1228
AUTHOR: Zelenyak, P. I.	44 sc 87
ORG: Institute of Mathematics, Siberia	n Division of the Academy of Sciences, SSSR
(Institut matematiki, Sibirskogo otdeler TITLE: Dependence on boundary of solution of small oscillations of rotating fluid SOURCE: AN SSSR. Doklady, v. 164, no. 6	ions of certain mixed problems for equations /, 55
	$\frac{\partial \omega}{\partial t} = -\frac{\partial p}{\partial s}; \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial \omega}{\partial s} = 0. (1)$
$\langle u _{t\rightarrow 0} = u_0(x, y, z); v _{t\rightarrow 0} = v_0$	$\begin{array}{ll} u_1, & & \\ v(x, y, z); & w _{t\rightarrow 0} = w_0(x, y, z) \\ U_0(x, y, z)) & & \end{array} $
Card 1/2 .	UDC: 517.946

L 7759-66 ACC NR: AP5027216			
	p r = 0.	(3)	
He shows the continuous dependent timates of the effect of smacademician S. L. Sobol r on	all perturbations.	This paper was presen	ted by
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L 03036-67 EWP(j)/EWT(m) RM

ACC NR: AP6019185

SOURCE CODE: UR/0376/66/002/002/0205/0213

AUTHOR: Zelenyak, T. I.

ORG: Institute of Mathematics, SO AN SSSR (Institut matematiki SO AN SSSR)

TITLE: Stationary solutions of mixed problems arising during the study of certain chemical processes

SOURCE: Differentsial'nyye uravneniya, v. 2, no. 2, 1966, 205-213

TOPIC TAGS: chemical reaction kinetics, catalysis, mixed boundary value problem, differential equation solution

ABSTRACT: The process within a flat catalyzer grain in the case of a single reaction under given assumptions is describable by the system of equations

$$\frac{\partial Q}{\partial t} = \Pi \frac{\partial^2 Q}{\partial \xi^3} + kQ_1 e^{\frac{Q}{1+Q_2}} \qquad (1-x),$$

$$\frac{\partial X}{\partial t} = \Pi \frac{\partial^2 X}{\partial \xi^2} + ke^{\frac{Q}{1+Q_2}} \qquad (1-x),$$
(1)

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UDC: 517.93

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ACC NR: AP6019185

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which can be discussed for given $\theta \mid t=0$ and $x \mid_{t=0}$ and specified conditions at the boundary

$$\theta'|_{\xi=0} = x'|_{\xi=0} = 0|_{\xi=1} = 0; \quad x|_{\xi=1} = \beta$$
(2)

or

$$\theta'|_{\xi=0} = x'|_{\xi=0} = 0; \quad \theta'|_{\xi=1} = \gamma(\theta-\theta_x)|_{\xi=1}; \quad x|_{\xi=1} = \beta,$$
 (3)

Here θ is the temperature; x - concentration of the reacting substance; II, k, Q1, Y, θ_X , b, and $0 < \beta > 1$ are positive constants characterizing the catalyzer and the reacting substance. The author establishes that for an arbitrary set of permissible parameters there exists at least one stationary solution. The number of possible stationary conditions within the flat catalyzer grain (taking into account the thermal conductivity of the gas) and the process within a chemical reactor in presence of a catalyzer and internal heat exchange during zeroth order reactions (i.e., when the reaction rate does not depend on the quantity of reacting substance) are also investigated. Orig. art. has: 58 formulas.

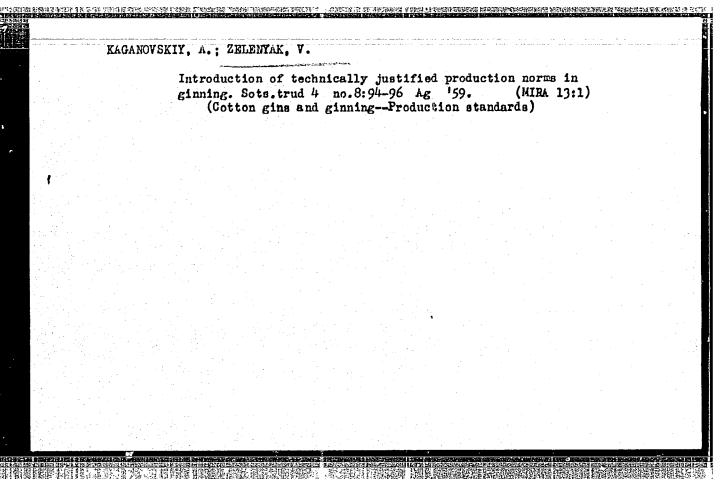
SUB CODE: 07,12/ SUBM DATE: 30Sep65/ ORIG REF: 003/ OTH REF: 002

/LS/ Card 2/2

ACC NRI UR/0020/66/171/002/0266/0268 SOURCE CODE: AP6036834 AUTHOR: Zelenyak, T. I. ORG: Institute of Mathematics, Siberian Branch of the Academy of Sciences SSSR (Institut matematiki Sibirskogo otdeleniya Akademii nauk SSSR) TITLE: On the stability of stationary solutions for a compound problem SOURCE: AN SSSR. Doklady, v. 171, no. 2, 1966, 266-268 TOPIC TAGS: stability criterion, partial differential equation, stationary solution Consider the equation describing a chemical process inside a plane grain ABSTRACT: catalyst $\frac{\partial u}{\partial t} = \frac{\partial^3 u}{\partial \xi^2} + \lambda (Q - u) e^u.$ with the initial and boundary conditions $|u|_{t=0} = u_0(\xi), \quad u|_{\xi=-1} = u|_{\xi=1} = 0$ where Q and λ are positive constants. The above equation has a stationary solution $\lim u(\xi, t_k) = \varphi(\xi)$ which is stable if, for $\epsilon > 0$, from the condition $|u_0(\xi) - \varphi(\xi)| \leq \epsilon$, it follows that $\|u(\xi,t)-\varphi(\xi)\|_{L_{t},\widetilde{t\to\infty}}$. The following substitutions are made $u(\xi, t) = (w + \varphi(\xi))$ and $\varphi(\xi) = y$, leading to the function DDC: 517.946

ACC NR: AP6036834 $z(y) = \frac{1}{F'(y)} + \sqrt{F'(y) - F'(y)} \int_{F'(y)}^{F'(y)} \frac{F'(y)dy}{F'(y) - F'(y)},$ where $y_0 = \varphi(0)$ and $F(y) = (y - Q - 1)e^y$. The necessary and sufficient conditions for the atability of the above stationary solution are given by z(0) < 0. The author expresses his thanks to M. C. Slin'ko for the above assumption concerning the necessary condition $\frac{\partial f}{\partial y_0} = 0$ for the stability of the corresponding solution, arising from physical considerations. This paper was presented by Academician M. A. Lavrent'yev on 31 January 1966. Orig. art. has: 10 equations.

SUB CODE: 12/ SUBM DATE: 26Jan66/ ORIG REF: 006



	ZELENYUK, I.G.									
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ZELENYUK, I.G., kand. tekhn. nauk

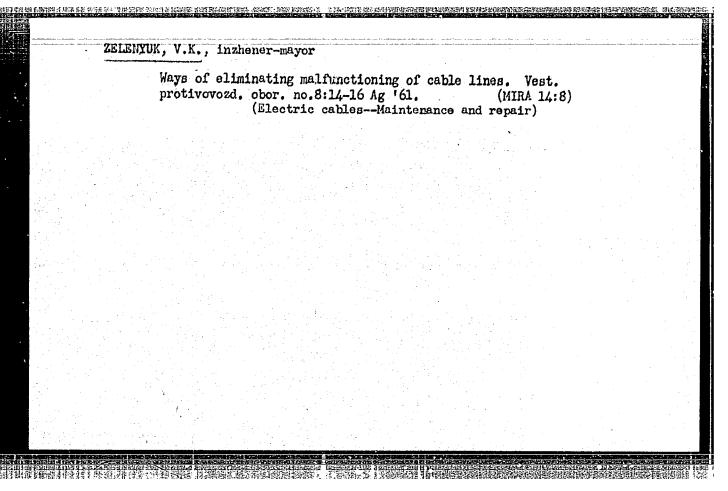
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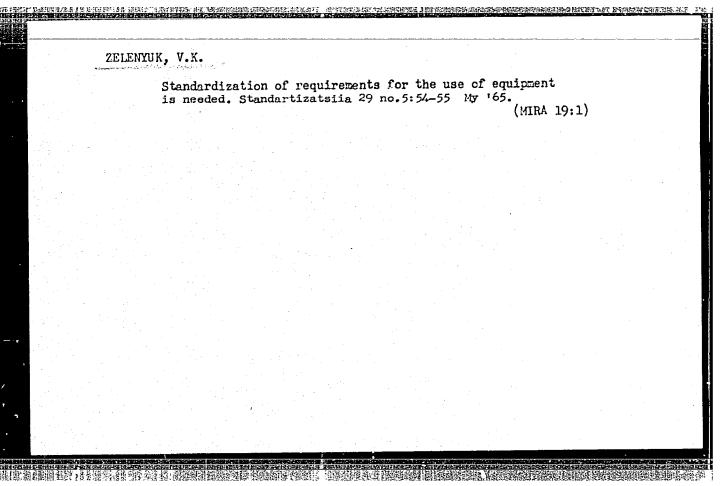
ZELENYUK, I. G. Cand Tech Sci -- (diss) "Study of the effectiveness of certain methods of organization of the flex flow turbine-drill turbines." Mos, 1959.

13 pp (Inst of Geology and Working of Combustible Minerals, Acad Sci USSR),

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-30-





MIKOL'SKIY, Yu.N., kand. tekhn.nauk; ZELENYY, I.T., inzh.

Mathod of testing the rectilinearity of the shaft of a retary kiln according to displaced centers of belting. TSement 31 no.538-9 5-0 (MIRA 18:10)

1. Livovskiy politekhnicheskiy institut.

DERBENTSEVA, N.A.; RABINOVICH, A.S. [Rabinovych, A.S.]; AYZENMAN, B.Ye. [Ayzenman, B.IU.]; ZELEPUKHA, S.I.; MANDRIK, T.P. [Mandryk, T.P.]; SHVAYGER, M.O. [Shvaiher, M.O.]

Antimicrobial substances of Hypericum perforatum. Hikrobiol.zhur. 21 no.5:52-57 59. (MIRA 13:2)

1. Iz Instituta mikrobiologii AN USSR.

(ANTISEPTICS pharmacol.)

(PLANTS MEDICINAL pharmacol.)

BONDARENKO, A.S.; ZELEPUKHA, S.I.; FOCHINOK, P.Ya.; NEGRASH, A.K.
[Nehrash, A.K.]; KUDRYAVTSEV, V.A.

Antimicrobial properties of Bidens cernua L. and Bidens
tripartita L. Mikrobiol. zhur. 26 no.1:67-72 '64.

(MIRA 18:11)

1. Institut mikrobiologii AN UkrSSR.

ZELENYANSZKI, E.

"Tests on the solubility of malt" p. 174, (ELELMEZESI IPAR, Vol. 7, no. 5, May. 1953 Budapest, Hungary)

SO: Monthly List of East European Accessions, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

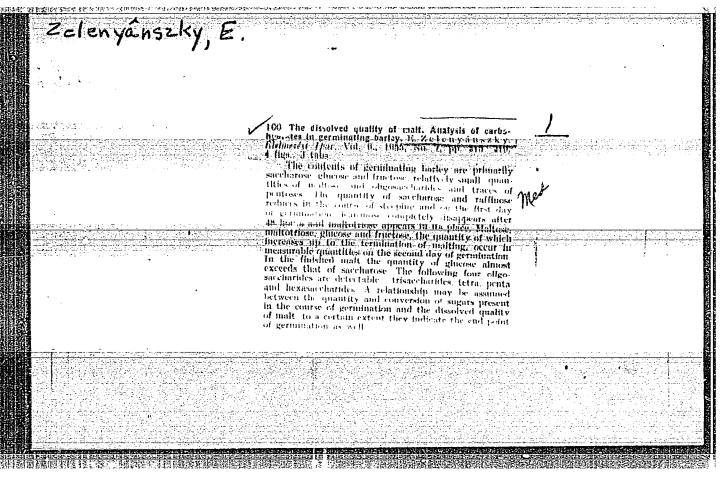
ZELENYANSZKI, E.

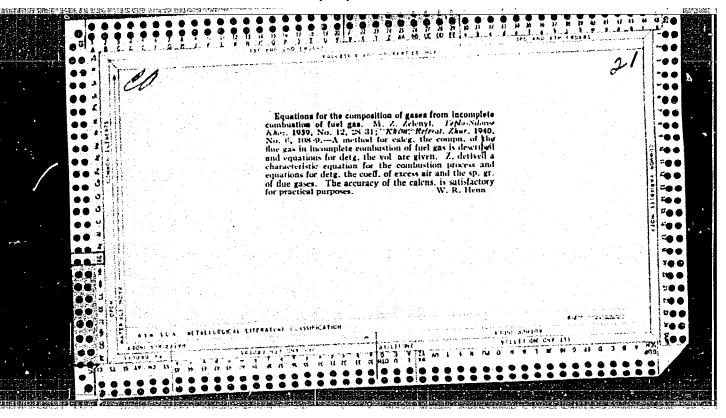
Solubility of malt; Investigation of carbohydrates in germinating barley. p. 215.

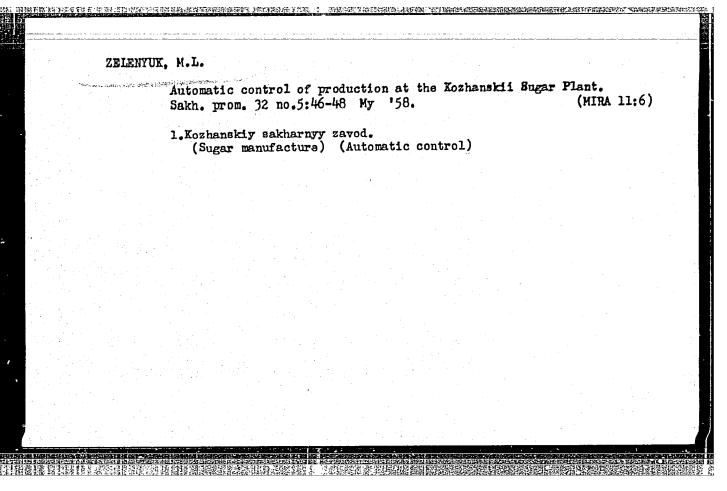
ELEIMEZESI IPAR, Vol. 9, No. 7, July 1955

(Mezogazdasagi Ipari Tudomanyos Egyesulet) Budapest.

SOURCE: East European Accessions List Vol. 5, No. 1 September, 1956







ZHAMIN TO	K, S. An important stimulus. Hauka i pered. op v sel'khoz. 9 no.6:37-38
	Je 159. (MIRA 12:9)
	l.Nachal'nik orgkolkhoznogo otdela Volynskogo oblastnogo upravleniya sel'skogo khozyaystva. (Collective farms) (Wages)

S/058/63/000/003/073/10⁴ A059/A101

AUTHORS:

Pashkovs'kyy, M. V., Savyts'kyy, I. V., Zelenyuk, V. K.

Influence of the conditions of preparation on the electric proper-

ties of mercuric sulfide

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 71, abstract 3E493 ("Visnyk L'vivs'k. un-tu. Ser. fiz.", 1962, no. 1(8), 90 - 96,

Ukrainian)

The electric properties of ∞-HgS obtained by different methods and also the influence of some impurities on the properties of HgS are studied. The polycrystalline HgH samples were prepared by the cold-pressing method of powders obtained in the chemical way or by the reaction of Hg with S in vacuo. The latter technique yield samples of higher purity. In a flask, 160 to 170 mm long and 22 to 28 mm in diameter, 150 g of pure HgS can be prepared in one cycle (15 to 20 hours). Aquadag, In or Sn contacts were used. The temperature dependence of the electric conductance (σ) was examined in the temperature range from liquid nitrogen to 500° C. The anomalous temperature course of σ in the first heating

Card 1/2

Influence o	of the conditions o	o f		3/058/63/000/00 1059/A101	93/073/104	
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PADALKA, Yefim Sergeyevich; ZELENYUK, Ye.Ye., red.; SHAFETA, S.M., tekhn. red.

[Ultrasonics in the petroleum industry]Ul'trazvuk v neftianci promyshlennosti. Kiev, Gostekhizdat USSR, 1962. 65 p.

(Petroleum industry)

(Ultrasonics--Industrial applications)

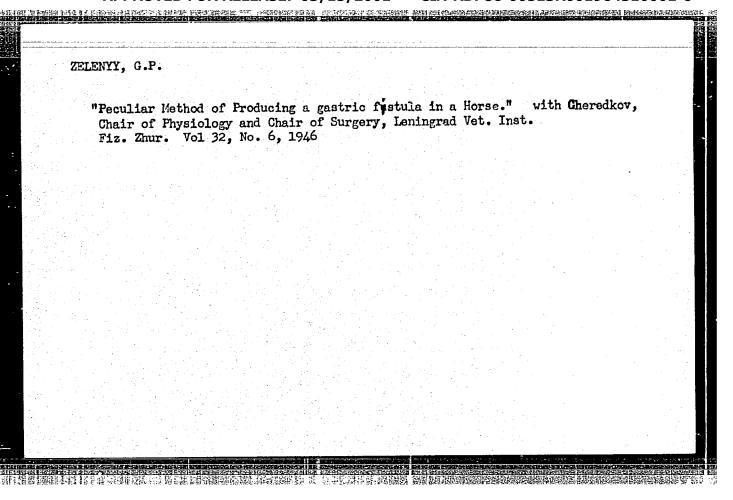
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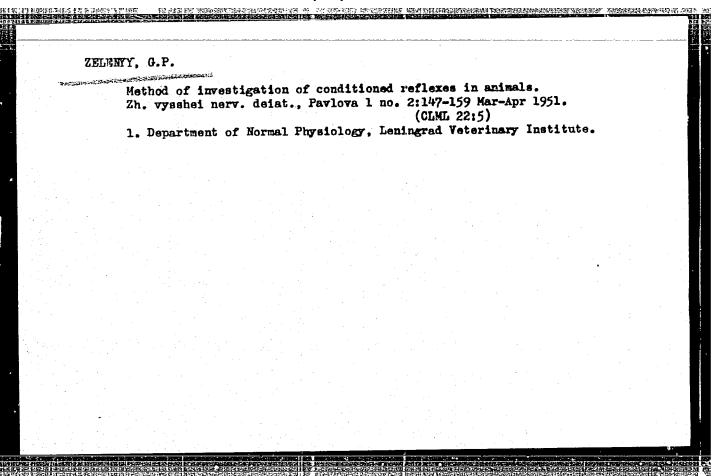
VOLOSHCHENKO, M.V.; RIDNYY, A.A.; LITOVKA, V.I.; ZELENYY, B.G.; MAKEYEVA, V.P.

Effect of silicon on the mechanical properties of isothermally hardened magnesium cast iron. Metalloved. i term. obr. met. no. 7147-48 Jl '64. (MIRA 17:11)

1. Institut liteynogo proizvodstva AN UkrSSR.

ZELE	NYY, G.P.							
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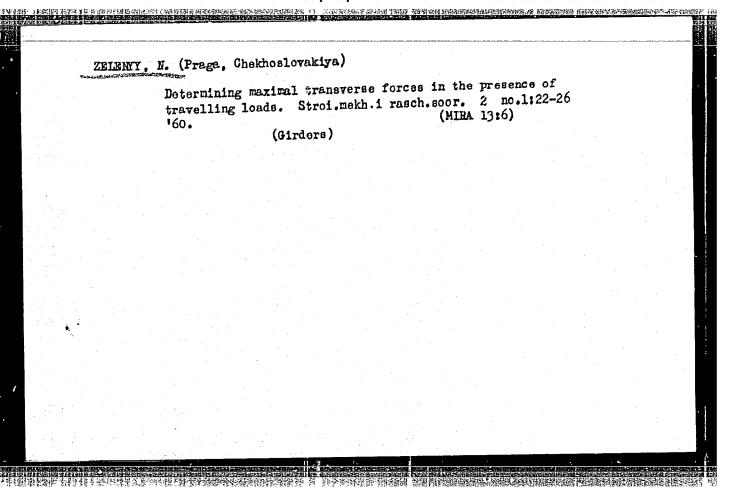


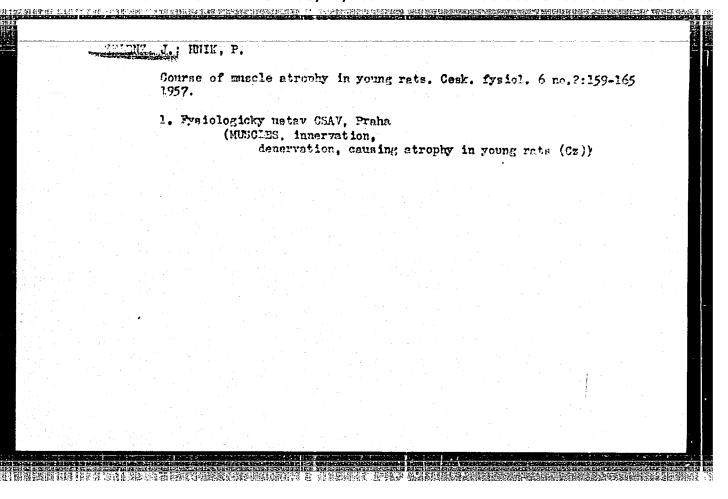


HRAZHNIK, Leonid Ivanovich; CHEFURINA, Nikolay Petrovich; ZELENY,
Iliya Iosifovich; AZARNINA, N.I., red.; YEREMINA, I.A.,
tekhn. red.

[Prestressing of reinforcements using an electric heating
technique] Napriazhenie arratury metodom elektronagreva.
Kiev, Gosstrolizdat, USSR, 1963. 96 p. (MIRA 17:1)
(Prestressed concrete)
(Concrete reinforcement)

Using fuel in carbon black factories. Leg.prom. 14 no.10:34-35 0 '54, (Carbon black) (MIRA 7:11)	ZELENYY, M.Z., kandidat tekhnicheskikh nauk.														
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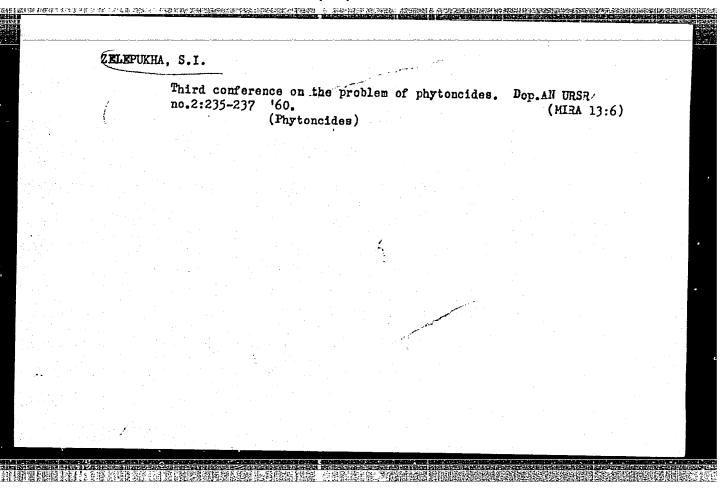
POPOV, V.Ye., NIKOL'SKAYA, Zh.D.; ZELKPUGIN, V.N.

Recent data on the age of the contact-metasomatic iron ore deposits of the Korgon zone of Gornyy Altai. Dokl. AN SSSR 147 no.3:675-678 N '62. (MIRA 15:12)

l. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut. Predstavleno akademikom D.V. Halivkinym.

(Korgon region (Altai Territory)—Iron ores)

Antimicrobial promise Mikrobiol. zhur.	roperties of wil. 24 no.1:41-45	d and garden str 162. (M	awberries. IRA 15:7)	
1. Institut mike	robiologii AN US	BR.		
	(STRAWBERR	ies)		



ZELEPUKHA, S.I.

Growth inhibitors of Corynebacterium diphthariae; effect of sulfamide and indole preparations on C. diphtheriae. Mikrobiol.zhur. 9 no.4: 52-58 148. (MLRA 9:9)

1. Iz otdela patogennykh mikroorganizmov (zav. otdelom - V.G.Drobot'ko) Instituta mikrobiologii imeni akademika D.K.Zabolotnogo *kademii nauk USSR.

(CORYNEBACTERIUM DIPHTHURIAE) (SULFAMIDE) (ICDOLE)

ZELEPUKHA, S.I.

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Growth premoting substances for C. diphtheriae. Hikrobiel.zhur. 9 no.2/3:88-92 148. (MLRA 9:9)

l. Iz otdela patogomykh mikroorganizmov (zav. etdelom - V.G.Drobot'ke) Instituta mikrobiologii imeni akademika D.K.Zabeletnogo Akademii nauk URSR.

(CORYNEBACTERIUM DIPHTHERIAE) (GROWTH PROMOTING SUBSTANCES)